*Abstract*

A smoke detection and monitoring arrangement detects surreptitious smoking in various zones in a building, e.g., rest rooms and break rooms, and also detects tampering. Each detection unit has an intake grille leading to a duct which contains an air flow detector, a smoke detector and an optical intrusion or tampering detector. Air flow may be induced by an internal fan, or may result from an optional connection to ventilation ductwork. Air flow, smoke, and tamper signals are fed from each unit to a central control panel, which may include visible indicators and an audible alarm.